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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,711	02/23/2004	Haruhiko Nakatsu	CANO:122	1500
37013	7590 06/22/2006	•	EXAMINER	
ROSSI, KIMMS & McDOWELL LLP.			WRIGHT, KAINOA	
P.O. BOX 8: ASHBURN.	26 VA 20146-0826		ART UNIT PAPER NUMBER	
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			DATE MAILED: 06/22/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)	,				
	10/784,711	· NAKATSU, HARUHIKO					
Office Action Summary	Examiner	Art Unit					
	Kainoa BK Wright	2861					
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a root od will apply and will expire SIX (6) MON ute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 23	February 2004.						
·—	, —						
3) Since this application is in condition for allow	<u>-</u>	-	its is				
closed in accordance with the practice unde	r Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-22 are subject to restriction and/or	rawn from consideration.						
Application Papers							
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) and an applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the	ccepted or b) objected to lead on the drawing (s) be held in abeyant ection is required if the drawing (ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.1	, ,				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	ints have been received. Ints have been received in A iority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage	Э				
Attachment(s)	4\ ☐ Intensions S	ummary (PTO-413)					
Notice of National Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No(s)/Mail Date Iformal Patent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-4 and 9-10, drawn towards an apparatus for adjusting an image on a second side of a duplex sheet by adjusting an image write start position by a correction ratio; and further by scaling the image via an adjusted image clock frequency, the clock frequency adjusted by the same correction ratio, classified in class 347, subclass 250.
 - II. Claims 5-8, 19 & 22, drawn towards an apparatus for adjusting an image on a second side of a duplex sheet by adjusting a number of image clock pulses corresponding to an image formation duration, the adjustment in accordance with an adjusted frequency, a distance from an image write start position and a beam detector, and a correction ratio; and further by using the adjusted clock pulses to determine an adjustment to an image write start position; and still further by scaling the image in accordance with the adjusted clock frequency, classified in class 347, subclass 250.
 - III. Claims 11-13 & 20, drawn towards a method and apparatus for adjusting a plurality of images of a second side of a duplex sheet within a tandem style printing system, whereby each image is adjusted separately, based on the detection of a mark located on the transfer belt, classified in class 347, subclass 234.

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IV. Claims 14-18 & 21, drawn towards a method and apparatus for adjusting a plurality of images of a second side of a duplex sheet within a tandem style printing system, whereby a single first image is adjusted, based on the detection of a mark located on the transfer belt, and the following images are positioned with reference to the adjusted first image, classified in class 347, subclass 234.

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The inventions are distinct, each from the other because of the following reasons:

2. Inventions I & II and III & IV are directed to related processes. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j).

In the instant case, inventions I &II and III & IV have different designs. I & II are drawn towards a single image carrier while III & IV are drawn towards plural tandem image carriers.

III & IV further require the detection of a mark disposed on the transfer belt, based on which an adjustment of an image position is made is made. Such limitations are not required in inventions I or II.

3. Inventions I and II are directed to related processes. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use

together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j).

In the instant case, invention I and invention II have differing modes of operation.

Invention I adjusts an image writing start position based on a distance from a beam detection to the image write start position; and invention II adjusts an image based on the image forming area. Also, according to applicant's disclosure, Invention I and invention II produce different results, invention I being better suited for smaller adjustments and invention II being better suited for larger adjustments.

4. Inventions III and IV are directed to related processes. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j).

In the instant case, III and IV have differing modes of operation. IV makes an adjustment to a single image and requires an image-positioning device to set that image as a reference to other images, while III makes an adjustment to all images separately and requires no positioning device.

5. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

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6. Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination

purposes as indicated is proper.

7. Because these inventions are independent or distinct for the reasons given above and

have acquired a separate status in the art because of their recognized divergent subject matter,

restriction for examination purposes as indicated is proper.

8. Applicant is advised that the reply to this requirement to be complete must include (i) an

election of a species or invention to be examined even though the requirement be traversed (37)

CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve

a right to petition, the election must be made with traverse. If the reply does not distinctly and

specifically point out supposed errors in the restriction requirement, the election shall be treated

as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably

distinct, applicant should submit evidence or identify such evidence now of record showing the

inventions or species to be obvious variants or clearly admit on the record that this is the case. In

either instance, if the examiner finds one of the inventions unpatentable over the prior art, the

evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kainoa BK Wright whose telephone number is (571) 272-5102. The examiner can normally be reached on M-F 8:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vip Patel can be reached on (571) 272-2458. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

06/01/06